ATTACHMENT H – PRIORITY POLLUTANT MONITORING REQUIREMENTS

The Discharger shall conduct effluent monitoring for the priority pollutants (except for 2,3,7,8-TCDD) as described below.

This monitoring shall occur at the following locations:

- Internal Discharge Points. Cooling tower blowdown (Discharge Points I-002 and I-004) only for priority pollutants added for cooling tower maintenance.
- Combined Flow Discharge Point. IBCS effluent (Discharge Point MC-001A).
- I. In order to determine compliance with the effluent limitations established at internal Discharge Points I-002 and I-004, the Discharger shall conduct annual priority pollutant monitoring for priority pollutants used for cooling tower maintenance as specified in Attachment E for the priority pollutants contained in *Table 1. Priority Pollutants*.
- II. In addition to the annual effluent compliance monitoring at Internal Discharge Points I-002 and I-004, the Discharger shall conduct the two priority pollutant monitoring studies at Combined Discharge Point MC-001A of the parameters in *Table 1. Priority Pollutants*. Further, the Discharger must analyze the pH of the receiving water concurrent with the analysis for the priority pollutants. Quarterly priority pollutant monitoring shall be conducted during the first year of facility operation (four monitoring events). The results of the quarterly priority pollutant monitoring shall be submitted to this Regional Water Board within 3 months of completing the fourth monitoring event, and no later than November 1, 2006.
- III. The second priority pollutant monitoring study shall include a single monitoring event at the Combined Discharge Point MC-001A, approximately one year prior to the permit expiration date as established in Section VI.C.2.b. of the Waste Discharge Requirements. The Discharger must analyze the pH of the receiving water concurrent with this analysis for the priority pollutants. The final priority pollutant monitoring event shall be conducted between March 1, 2009 and April 31, 2009 and include Phase II effluent if possible. The results of the second priority pollutant monitoring study shall be submitted to the Regional Water Board at least 180 days prior to the expiration date of this Order and shall be submitted with the Report of Waste Discharge.
- IV. The Discharger shall conduct effluent monitoring for 2,3,7,8 TCDD, once during the term of the Order (between March 1, 2009 and April 31, 2009) and submit the results with the Report of Waste Discharge, a minimum of 180 days prior to the expiration date of this Order. The Discharger is required to calculate Toxic Equivalence (TEQ) for each congener by multiplying its analytical concentration by the appropriate Toxicity Equivalence Factors (TEF) provided in *Table 2. Toxicity Equivalence Factors*.

Table 1. Priority Pollutants.

Table 1. Priority Pollutants.		
Constituent	Units	Type of Sample
рН	Standard units	Grab
Hardness (as CaCO ₃)	mg/L	Grab
Salinity	g/L	Grab
Antimony	μg/L	Grab
Arsenic ²	μg/L	Grab
Beryllium	μg/L	Grab
Cadmium ²	μg/L	Grab
Chromium III ²	μg/L	Grab
Chromium VI ²	μg/L	Grab
Copper ²	μg/L	Grab
Lead ²	μg/L	Grab
Mercury	μg/L	Grab
Nickel ²	μg/L	Grab
Selenium	μg/L	Grab
Silver ²	μg/L	Grab
Thallium	μg/L	Grab
Zinc ²	μg/L	Grab
Cyanide	μg/L	Grab
Asbestos	Fibers/L	Grab
Acrolein	μg/L	Grab
Acrylonitrile	μg/L	Grab
Bromoform	μg/L	Grab
Carbon Tetrachloride	μg/L	Grab
Chlorobenzene	μg/L	Grab
Chlorodibromomethane (Dibromochloromethane)	μg/L	Grab
Chloroethane	μg/L	Grab
2-Chloroethylvinyl ether	μg/L	Grab
Chloroform	μg/L	Grab
Dichlorobromomethane (Bromodichloromethane)	μg/L	Grab
1,1-Dichloroethane	μg/L	Grab
1,2-Dichloropropane	μg/L	Grab
1,3-Dichloropropylene	μg/L	Grab
Methyl Bromide (Bromomethane)	μg/L	Grab
Methyl Chloride (Chloromethane)	μg/L	Grab
Methylene Chloride	μg/L	Grab
1,1,2,2-Tetrachloroethane	$\mu g/L$	Grab
1,1,2,2 101101010111111	μg/L	L Club

Constituent	Units	Type of Sample
1,1,2-Trichloroethane	μg/L	Grab
Vinyl Chloride	μg/L	Grab
1,2-Dichlorobenzene	μg/L	Grab
1,3-Dichlorobenzene	μg/L	Grab
1,4-Dichlorobenzene	μg/L	Grab
2-Chlorophenol	μg/L	Grab
2,4-Dichlorophenol	μg/L	Grab
2,4-Dimethylphenol	μg/L	Grab
2-Methyl- 4,6-Dinitrophenol	μg/L	Grab
2,4-Dinitrophenol	μg/L	Grab
2-Nitrophenol	μg/L	Grab
4-Nitrophenol	μg/L	Grab
3-Methyl 4-Chlorophenol	μg/L	Grab
Pentachlorophenol	μg/L	Grab
Phenol	μg/L	Grab
2,4,6-Trichlorophenol	μg/L	Grab
Acenaphthene	μg/L	Grab
Acenaphthylene	μg/L	Grab
Anthracene	μg/L	Grab
Benzidine	μg/L	Grab
Benzo(a)Anthracene	μg/L	Grab
Benzo(a)Pyrene	μg/L	Grab
Benzo(b)Fluoranthene	μg/L	Grab
Benzo(ghi)Perylene	μg/L	Grab
Benzo(k)Fluoranthene	μg/L	Grab
Bis(2-Chloroethoxy)Methane	μg/L	Grab
Bis(2-Chloroethyl)Ether	μg/L	Grab
Bis(2-Chloroisopropyl)Ether	μg/L	Grab
Bis(2-Ethylhexyl)Phthalate	μ g/L	Grab
4-Bromophenyl Phenyl Ether	μg/L	Grab
Butylbenzyl Phthalate	μg/L	Grab
2-Chloronaphthalene	μg/L	Grab
4-Chlorophenyl Phenyl Ether	μg/L	Grab
Chrysene	μg/L	Grab
Dibenzo(a,h)Anthracene	μg/L	Grab
3,3 Dichlorobenzidine	μg/L	Grab
Diethyl Phthalate	μg/L	Grab
Dimethyl Phthalate	μg/L	Grab
Di-n-Butyl Phthalate	μg/L	Grab
2,4-Dinitrotoluene	μg/L	Grab

Constituent	Units	Type of Sample
2,6-Dinitrotoluene	μg/L	Grab
Di-n-Octyl Phthalate	μg/L	Grab
1,2-Diphenylhydrazine	μg/L	Grab
Fluoranthene	μg/L	Grab
Fluorene	μg/L	Grab
Hexachlorobenzene	μg/L	Grab
Hexachlorobutadiene	μg/L	Grab
Hexachlorocyclopentadiene	μg/L	Grab
Hexachloroethane	μg/L	Grab
Indeno(1,2,3-cd)Pyrene	μg/L	Grab
Isophorone	μg/L	Grab
Naphthalene	μg/L	Grab
Nitrobenzene	μg/L	Grab
N-Nitrosodimethylamine	μg/L	Grab
N-Nitrosodi-n-Propylamine	μg/L	Grab
N-Nitrosodiphenylamine	μg/L	Grab
Phenanthrene	μg/L	Grab
Pyrene	μg/L	Grab
1,2,4-Trichlorobenzene	μg/L	Grab
Aldrin	μg/L	Grab
alpha-BHC (hexachloro-		Crob
cyclohexane)	μg/L	Grab
beta-BHC	μg/L	Grab
gamma-BHC	μg/L	Grab
delta-BHC	μg/L	Grab
Chlordane	μg/L	Grab
4,4'-DDT	μg/L	Grab
4,4'-DDE (linked to DDT)	μg/L	Grab
4,4'-DDD	μg/L	Grab
Dieldrin	μg/L	Grab
alpha-Endosulfan	μg/L	Grab
beta-Endolsulfan	μg/L	Grab
Endosulfan Sulfate	μg/L	Grab
Endrin	μg/L	Grab
Endrin Aldehyde	μg/L	Grab
Heptachlor	μg/L	Grab
Heptachlor Epoxide	μg/L	Grab
PCBs sum ³	μg/L	Grab
Toxaphene	μg/L	Grab

¹Monitoring and analysis for pH, hardness, and salinity is required for receiving water only.

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Table 2. Toxicity Equivalence Factors

Tuble 2: Toxicity Equivalence Tuctors				
Congeners	TEF			
2,3,7,8-Tetra CDD	1.0			
1,2,3,7,8-penta CDD	1.0			
1,2,3,4,7,8-hexa CDD	0.1			
1,2,3,6,7,8-hexa CDD	0.1			
1,2,3,7,8,9-hexa CDD	0.1			
1,2,3,4,6,7,8-hepta CDD	0.01			
Octa CDD	0.0001			
2,3,7,8-tetra CDF	0.1			
1,2,3,7,8 penta CDF	0.05			
2,3,4,7,8-penta CDF	0.5			
1,2,3,4,7,8-hexa CDF	0.1			
1,2,3,6,7,8-hexa CDF	0.1			
1,2,3,7,8,9-hexa CDF	0.1			
2,3,4,6,7,8-hexa CDF	0.1			
1,2,3,4,6,7,8-hepta CDF	0.01			
1,2,3,4,7,8,9-hepta CDF	0.01			
Octa CDF	0.0001			

Please note that the report for 2,3,7,8 TCDD and the final priority pollutant study is must be submitted with the Report of Waste Discharge and submitted to the Regional Water Board as an attachment to the Report of Waste Discharge no later than 180 days prior to the expiration date of Order No. R9-2005-0139.

²Measured as total recoverable.

³PCBs sum refers to sum of PCB Arochlors 1016, 1221, 1232, 1242, 1248, 1254, and 1260